

ANTIMONY - SOUTH OF MARLIN SURFACE SOIL

Compound	Site Conc. Mean	Site Conc. Standard Deviation	Number of Site Samples	Background Conc. Mean	Background Conc. Standard Deviation	Number of Background Samples
Antimony	1.118	1.228	83	0.953	0.878	10

Calculated Difference = 0.165
 Standard Error of the Difference = 0.407177285
 Degree of Freedom = 91
 t = 0.405228892
 p = 0.3445
 Data sets significantly different = No

calculated at www.stat.tamu.edu/~west/applets/tdemo.html
 background mean is not statistically less than site mean

ARSENIC - SOUTH OF MARLIN SURFACE SOIL

Compound	Site Conc. Mean	Site Conc. Standard Deviation	Number of Site Samples	Background Conc. Mean	Background Conc. Standard Deviation	Number of Background Samples
Arsenic	3.735	4.012	83	3.438	1.792	10

Calculated Difference = 0.297
 Standard Error of the Difference = 1.126036589
 Degree of Freedom = 91
 t = 0.263756971
 p = 0.3963
 Data sets significantly different = No

calculated at www.stat.tamu.edu/~west/applets/tdemo.html
 site soil mean is not statistically greater than background mean

BARIUM - SOUTH OF MARLIN SURFACE SOIL

Compound	Site Conc. Mean	Site Conc. Standard Deviation	Number of Site Samples	Background Conc. Mean	Background Conc. Standard Deviation	Number of Background Samples
Barium	345.2	349	83	333.1	288.1	10

Calculated Difference = 12.1
 Standard Error of the Difference = 124.3580544
 Degree of Freedom = 91
 t = 0.097299689
 p = 0.4614
 Data sets significantly different = No

calculated at www.stat.tamu.edu/~west/applets/tdemo.html
 site soil mean is not statistically greater than background mean

CADMIUM - SOUTH OF MARLIN SURFACE SOIL

Compound	Site Conc. Mean	Site Conc. Standard Deviation	Number of Site Samples	Background Conc. Mean	Background Conc. Standard Deviation	Number of Background Samples
Cadmium	0.464	1.141	83	0.0311	0.0398	10

Calculated Difference = 0.4329
 Standard Error of the Difference = 0.277019204
 Degree of Freedom = 91
 t = 1.562707545
 p = 0.0608 calculated at www.stat.tamu.edu/~west/applets/tdemo.html
 Data sets significantly different = No site soil mean is not statistically greater than background mean

CHROMIUM - SOUTH OF MARLIN SURFACE SOIL

Compound	Site Conc. Mean	Site Conc. Standard Deviation	Number of Site Samples	Background Conc. Mean	Background Conc. Standard Deviation	Number of Background Samples
Chromium	16.08	15.7	83	15.2	3.02	10

Calculated Difference = 0.88
 Standard Error of the Difference = 3.925742193
 Degree of Freedom = 91
 t = 0.224161434
 p = 0.4116
 Data sets significantly different = No

calculated at www.stat.tamu.edu/~west/applets/tdemo.html
 site soil mean is not statistically greater than background mean

COPPER - SOUTH OF MARLIN SURFACE SOIL

Compound	Site Conc. Mean	Site Conc. Standard Deviation	Number of Site Samples	Background Conc. Mean	Background Conc. Standard Deviation	Number of Background Samples
Copper	27.98	35.35	83	12.12	3.955	10

Calculated Difference = 15.86
 Standard Error of the Difference = 8.664375822
 Degree of Freedom = 91
 t = 1.830483849
 p = 0.0353 calculated at www.stat.tamu.edu/~west/applets/tdemo.html
 Data sets significantly different = Yes site surface soil mean is statistically greater than background mean

LEAD - SOUTH OF MARLIN SURFACE SOIL

Compound	Site Conc. Mean	Site Conc. Standard Deviation	Number of Site Samples	Background Conc. Mean	Background Conc. Standard Deviation	Number of Background Samples
Lead	69.61	112.8	83	13.43	1.547	10

Calculated Difference = 56.18
 Standard Error of the Difference = 27.36239203
 Degree of Freedom = 91
 t = 2.053183068
 p = 0.0215
 Data sets significantly different = Yes

calculated at www.stat.tamu.edu/~west/applets/tdemo.html
 site surface soil mean is statistically greater than background mean

LITHIUM - SOUTH OF MARLIN SURFACE SOIL

Compound	Site Conc. Mean	Site Conc. Standard Deviation	Number of Site Samples	Background Conc. Mean	Background Conc. Standard Deviation	Number of Background Samples
Lithium	7.856	5.715	83	21.14	5.166	10

Calculated Difference = 13.284
 Standard Error of the Difference = 2.142429492
 Degree of Freedom = 91
 t = 6.200437423
 p = 0.00 calculated at www.stat.tamu.edu/~west/applets/tdemo.html
 Data sets significantly different = Yes site surface soil mean is statistically less than background mean

MANGANESE - SOUTH OF MARLIN SURFACE SOIL

Compound	Site Conc. Mean	Site Conc. Standard Deviation	Number of Site Samples	Background Conc. Mean	Background Conc. Standard Deviation	Number of Background Samples
Manganese	257.4	129.3	83	377.4	93.75	10

Calculated Difference = 120
 Standard Error of the Difference = 43.15491673
 Degree of Freedom = 91
 t = 2.780679679
 p = 0.0033
 Data sets significantly different = Yes

calculated at www.stat.tamu.edu/~west/applets/tdemo.html
 site surface soil mean is statistically less than background mean

MERCURY - SOUTH OF MARLIN SURFACE SOIL

Compound	Site Conc. Mean	Site Conc. Standard Deviation	Number of Site Samples	Background Conc. Mean	Background Conc. Standard Deviation	Number of Background Samples
Mercury	0.0227	0.0752	83	0.0213	0.00479	10

Calculated Difference = 0.0014
 Standard Error of the Difference = 0.01830147
 Degree of Freedom = 91
 t = 0.076496585
 p = 0.4698
 Data sets significantly different = No

calculated at www.stat.tamu.edu/~west/applets/tdemo.html
 site soil mean is not statistically greater than background mean

MOLYBDENUM - SOUTH OF MARLIN SURFACE SOIL

Compound	Site Conc. Mean	Site Conc. Standard Deviation	Number of Site Samples	Background Conc. Mean	Background Conc. Standard Deviation	Number of Background Samples
Molybdenum	1.306	1.588	83	0.522	0.0739	10

Calculated Difference = 0.784
 Standard Error of the Difference = 0.385854899
 Degree of Freedom = 91
 t = 2.031851873
 p = 0.0225 calculated at www.stat.tamu.edu/~west/applets/tdemo.html
 Data sets significantly different = Yes site surface soil mean is statistically greater than background mean

ZINC - SOUTH OF MARLIN SURFACE SOIL

Compound	Site Conc. Mean	Site Conc. Standard Deviation	Number of Site Samples	Background Conc. Mean	Background Conc. Standard Deviation	Number of Background Samples
Zinc	601.2	672.8	83	247	364.6	10

Calculated Difference = 354.2
 Standard Error of the Difference = 199.8008143
 Degree of Freedom = 91
 t = 1.772765547
 p = 0.0399 calculated at www.stat.tamu.edu/~west/applets/tdemo.html
 Data sets significantly different = Yes site surface soil mean is statistically greater than background mean